

PERFORMANCE BENCHMARKS

406.03C

Monitoring/Surveying/Detection Equipment Maintenance & Use

Discipline: Hazmat – Technician Level

Effective: 7/5/2011

Revised:

Replaces:

Anne Huff, Fire Chief

I. Objective

Given monitoring equipment, test strips, and reagents provided by the AHJ, the hazardous materials technician shall demonstrate the field maintenance and testing procedures for those items.

II. Instructions – Procedures for Achieving the Objective

Given various monitoring, surveying and detection instruments/equipment, you will demonstrate the procedures for calibrating the instruments or verifying their calibration. You will also demonstrate how to use each instrument or type of test equipment provided. You will begin on my instructions to start. The skill will end when you state or indicate to me that you have completed all the identified steps. Do you understand these instructions?

III. Examiner's Note

The hazardous materials technician will not be allowed to review the performance steps at the time of testing.

IV. Preparation & Equipment

- A. Carbon monoxide monitor*
- B. Combustible gas indicator*
- C. Oxygen monitor*
- D. Gas specific monitors
- E. Photo-ionization detector
- F. Colorimetric tubes
- G. Radiation survey equipment
- H. Radiation dosimeters
- I. pH papers/pH meters
- J. Test strips
- K. Reagents
- L. Equipment to calibrate or verify calibration
- M. Other instruments/equipment provided by AHJ

**These may be single gas or multi-gas monitors.*

V. Reference Sources

See Reference Sources in PB 406.03A.

PB 406.03C – Monitoring/Surveying/Detection Equipment Maintenance & Use

Discipline: Hazardous Materials

| | |
|------------|------------|
| Name: | Officer #: |
| Evaluator: | Officer #: |
| Date: | Location: |

The Haz Mat Technician shall:

(No partial points given)

SAMPLE #1 (Liquid)

A. Oxygen Monitor

1. In accordance with the manufacturer's instructions,
calibrates monitor or verifies calibration.....P/F _____
2. Demonstrate proper use of the device.....P/F _____

B. Combustible Gas Indicator

1. In accordance with the manufacturer's instructions,
calibrates monitor or verifies calibration.....P/F _____
2. Demonstrate proper use of the device.....P/F _____

C. Carbon Monoxide Monitor

1. In accordance with the manufacturer's instructions,
calibrates monitor or verifies calibration.....P/F _____
2. Demonstrate proper use of the device.....P/F _____

D. Gas-specific Monitor (i.e. hydrogen sulfide detector)

1. In accordance with the manufacturer's instructions,
calibrates monitor or verifies calibration.....P/F _____
2. Demonstrate proper use of the device.....P/F _____

E. Radiation Survey Instrument (i.e. Ludlum 2241-2 or CDV700 or CDV715)

1. In accordance with the manufacturer's instructions,
calibrates monitor or verifies calibration.....P/F _____
2. Demonstrate proper use of the device.....P/F _____

F. Radiation Dosimeter

1. In accordance with the manufacturer's instructions,
calibrates monitor or verifies calibration.....P/F _____
2. Demonstrate proper use of the device.....P/F _____

G. pH Paper and/or Meter

1. In accordance with the manufacturer's instructions,
calibrates monitor or verifies calibration.....P/F _____
2. Demonstrate proper use of the device.....P/F _____

H. Colorimetric Tubes/Devices (i.e. Draeger tubes)

1. In accordance with the manufacturer's instructions,
calibrates monitor or verifies calibration.....P/F _____
2. Demonstrate proper use of the device.....P/F _____

I. Test strips or Reagents

1. In accordance with the manufacturer's instructions,
calibrates monitor or verifies calibration.....P/F _____
2. Demonstrate proper use of the device.....P/F _____

J. Photoionization detector

1. In accordance with the manufacturer's instructions,
calibrates monitor or verifies calibration.....P/F _____
2. Demonstrate proper use of the device.....P/F _____

K. Others monitoring, detection or survey equipment provided by the AHJ

1. In accordance with the manufacturer's instructions,
calibrates monitor or verifies calibration.....P/F _____
2. Demonstrate proper use of the device.....P/F _____

Time Allocation

Completes skill in allotted time..... P/F _____

Allotted time for this skill: _____ minutes _____ seconds

Actual time: _____ minutes _____ seconds

| Points Possible | Passing Score | Attempt | Performance Rating (Points) | PASS | FAIL |
|-----------------|---------------|---------|-----------------------------|------|------|
| P/F | P/F | First | | | |
| | | Second | | | |
| | | Third | | | |